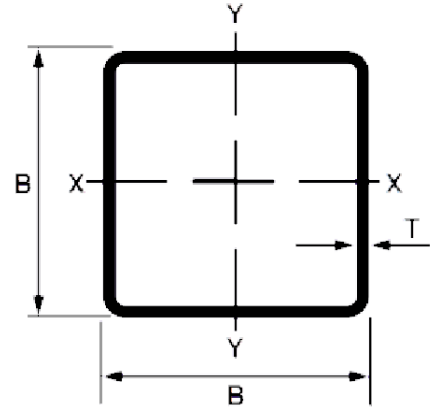


RAINHAM STEEL

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Cold Formed Squares

EN 10219



Size	Thickness	Mass	Area	Moment of inertia	Radius of gyration	Elastic modulus	Plastic modulus	Torsional constants		Superficial area	Approx. length/tonne
								It	Ct		
B x B	T	M	A	I	i	Wel	Wpl	cm ⁴	cm ³	m ² /m	m
mm	mm	kg/m	cm ⁴	cm ²	cm	cm ³	cm ³				
100x100	4.0	11.7	14.9	226	3.89	45.3	53.3	362	68.1	0.386	85.2
	5.0	14.4	18.4	271	3.84	54.2	64.6	441	81.7	0.383	69.4
	6.0	17.0	21.6	311	3.79	62.3	75.1	514	94.1	0.379	58.9
	8.0	21.4	27.2	366	3.67	73.2	91.1	645	114.0	0.366	46.8
120x120	5.0	17.5	22.4	485	4.66	80.9	95.4	778	122	0.463	57.0
	6.0	20.7	26.4	562	4.61	93.7	112	913	141	0.459	48.2
	8.0	26.4	33.6	677	4.49	113	138	1163	175	0.446	37.9
	10.0	31.8	40.6	777	4.38	129	162	1376	203	0.437	31.4
140x140	5.0	20.7	26.4	791	5.48	113	132	1256	170	0.543	48.3
	6.0	24.5	31.2	920	5.43	131	155	1479	198	0.539	40.8
	8.0	31.4	40.0	1127	5.30	161	194	1901	248	0.526	31.8
	10.0	38.1	48.6	1312	5.20	187	230	2274	291	0.517	26.2
150x150	4.0	18.0	22.9	808	5.93	108	125	1265	162	0.586	55.5
	5.0	22.3	28.4	982	5.89	131	153	1554	197	0.583	44.9
	6.0	26.4	33.6	1146	5.84	153	180	1833	230	0.579	37.9
	8.0	33.9	43.2	1412	5.71	188	226	2364	289	0.566	29.5
	10.0	41.3	52.6	1653	5.61	220	269	2839	341	0.557	24.2
	12.5	48.7	62	1817	5.41	242	305	3320	389	0.536	20.5
160x160	5.0	23.8	30.4	1202	6.29	150	175	1896	226	0.623	42.0
	6.0	28.3	36.0	1405	6.25	176	206	2239	264	0.619	35.4
	8.0	36.5	46.4	1741	6.12	218	260	2897	334	0.606	27.4
	10.0	44.4	56.6	2048	6.02	256	311	3490	395	0.597	22.5
180x180	5.0	27.0	34.4	1737	7.11	193	224	2724	290	0.703	37.1
	6.0	32.1	40.8	2037	7.06	226	264	3223	340	0.699	31.2
	8.0	41.5	52.8	2546	6.94	283	336	4189	432	0.686	24.1
	10.0	50.7	64.6	3017	6.84	335	404	5074	515	0.677	19.7
	12.5	60.5	77.0	3406	6.65	378	467	6050	600	0.656	16.5

Size	Thickness	Mass	Area	Moment of inertia	Radius of gyration	Elastic modulus	Plastic modulus	Torsional constants		Superficial area	Approx. length/tonne
B x B mm	T mm	M kg/m	A cm ⁴	I cm ²	i cm	Wel cm ³	Wpl cm ³	It cm ⁴	Ct cm ³	m ² /m	m
200x200	5.0	30.1	38.4	2410	7.93	241	279	3763	362	0.783	33.2
	6.0	35.8	45.6	2833	7.88	283	330	4459	426	0.779	27.9
	8.0	46.5	59.2	3566	7.76	357	421	5815	544	0.766	21.5
	10.0	57.0	72.6	4251	7.65	425	508	7072	651	0.757	17.6
	12.5	68.3	87.0	4859	7.47	486	594	8502	765	0.736	14.6
250x250	6.0	45.2	57.6	5672	9.92	454	524	8843	681	0.979	22.1
	8.0	59.1	75.2	7229	9.80	578	676	11598	878	0.966	16.9
	10.0	72.7	92.6	8707	9.70	697	822	14197	1062	0.957	13.8
	12.5	88.0	112	10161	9.52	813	975	17283	1226	0.936	11.4
300x300	8.0	71.6	91.2	12801	11.8	853	991	20312	1293	1.17	14.0
	10.0	88.4	113	15519	11.7	1035	1211	24966	1572	1.16	11.3
	12.5	108	137	18348	11.6	1223	1451	30601	1892	1.14	9.3